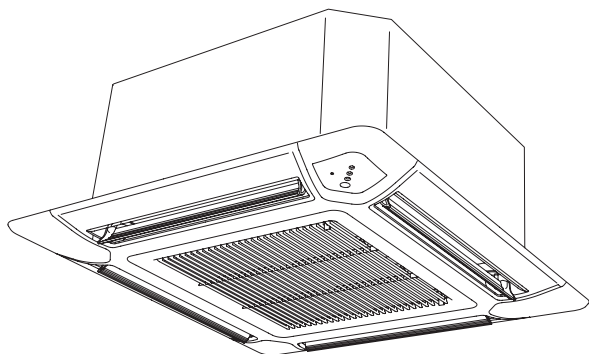




AUUA7RLAV
AUUA9RLAV
AUUA12RLAV
AUUA14RLAV
AUUA18RLAV
AUUA24RLAV

INSTALLATION MANUAL

INDOOR UNIT (Cassette Type)

For authorized service personnel only.

English

MANUEL D'INSTALLATION

APPAREIL INTÉRIEUR (Type Cassette)

Uniquement réservé aux techniciens agréés.

Français

MANUAL DE INSTALACIÓN

UNIDAD INTERIOR (Tipo Casete)

Sólo para personal de servicio autorizado.

Español

MANUAL DE INSTALAÇÃO

UNIDADE INTERIOR (Tipo Cassete)

Apenas para técnicos de assistência autorizados.

Português

INSTALLATION MANUAL

PART NO. 9371022215-02
VRF system indoor unit (Cassette type)

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1. SAFETY PRECAUTIONS

1.1. IMPORTANT! Please read before starting

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so it operates safely and efficiently.

For safe installation and trouble-free operation, you must:

- Carefully read this instruction booklet before beginning.
- Follow each installation or repair step exactly as shown.
- Observe all local, state, and national electrical codes.
- Pay close attention to all danger, warning, and caution notices given in this manual.

WARNING: This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

CAUTION: This symbol refers to a hazard or unsafe practice which can result in personal injury and the potential for product or property damage.

- Hazard alerting symbols



Electrical



Safety/alert

If Necessary, Get Help

These instructions are all you need for most installation sites and maintenance conditions. If you require help for a special problem, contact our sales/service outlet or your certified dealer for additional instructions.

In Case of Improper Installation

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

1.2. SPECIAL PRECAUTIONS

When Wiring

ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY A QUALIFIED, EXPERIENCED ELECTRICIAN SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring. Improper connections and inadequate earthing (grounding) can cause accidental injury or death.
- Earth (Ground) the unit following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.

When Transporting

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminum fins on the air conditioner can cut your fingers.

When Installing...

...In a Ceiling or Wall

Make sure the ceiling/wall is strong enough to hold the unit's weight. It may be necessary to construct a strong wood or metal frame to provide added support.

...In a Room

Properly insulate any tubing run inside a room to prevent "sweating" that can cause dripping and water damage to walls and floors.

...In an Area with High Winds

Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

...In a Snowy Area (for Heat Pump-type Systems)

Install the outdoor unit on a raised platform that is higher than drifting snow.

When Connecting Refrigerant Tubing

- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leak-free connection.
- Check carefully for leaks before opening the refrigerant valves.

When Servicing

- Turn the power OFF at the main circuit breaker panel before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.
- After installation, explain correct operation to the customer, using the operating manual.

DANGER

Never touch electrical components immediately after the power supply has been turned off. Electrical shock may occur. After turning off the power, always wait 5 minutes or more before touching electrical components.

- Be sure to read this Manual thoroughly before installation.
- The warnings and precautions indicated in this Manual contain important information pertaining to your safety. Be sure to observe them.
- Hand this Manual, together with the Operating Manual to the customer.
Request the customer to keep them on hand for future use, such as for relocating or repairing the unit.

⚠ WARNING!

Request your dealer or a professional installer to install the unit in accordance with this Manual.
An improperly installed unit can cause serious accidents such as water leakage, electric shock, or fire.
If the unit is installed in disregard of the instructions in the Installation Manual, it will void the manufacturer's warranty.

Do not turn ON the power until all work has been completed.
Turning ON the power before the work is completed can cause serious accidents such as electric shock or fire.

If refrigerant leaks while work is being carried out, ventilate the area.
If the refrigerant comes in contact with a flame, it produces a toxic gas.

Installation work must be performed in accordance with national wiring standards by authorized personnel only.

Except for EMERGENCY, never turn off main as well as sub breaker of the indoor units during operation. It will cause compressor failure as well as water leakage. First, stop the indoor unit by operating the control unit, converter or external input device and then cut the breaker.
Make sure to operate through the control unit, converter or external input device.
When the breaker is designed, locate it at a place where the users cannot start and stop in the daily work.

2. ABOUT THE UNIT

2.1. Precautions for using the R410A refrigerant

⚠ WARNING

Do not introduce any substance other than the prescribed refrigerant into the refrigeration cycle.
If air enters the refrigeration cycle, the pressure in the refrigeration cycle will become abnormally high and cause the piping to rupture.

If there is a refrigerant leakage, make sure that it does not exceed the concentration limit.
If a refrigerant leakage exceeds the concentration limit, it can lead to accidents such as oxygen starvation.

Do not touch refrigerant that has leaked from the refrigerant pipe connections or other area. Touching the refrigerant directly can cause frostbite.

If a refrigerant leakage occurs during operation, immediately vacate the premises and thoroughly ventilate the area.
If the refrigerant comes in contact with a flame, it produces a toxic gas.

2.2. Special tool for R410A

⚠ WARNING

To install a unit that uses the R410A refrigerant, use dedicated tools and piping materials that have been manufactured specifically for R410A use.
Because the pressure of the R410A refrigerant is approximately 1.6 times higher than the R22, failure to use dedicated piping material or improper installation can cause rupture or injury.
Furthermore, it can cause serious accidents such as water leakage, electric shock, or fire.

Tool name	Contents of change
Gauge manifold	Pressure is huge and cannot be measured with a conventional (R22) gauge. To prevent erroneous mixing of other refrigerants, the diameter of each port has been changed. It is recommended to use a gauge manifold with a high pressure display range 30in.Hg to 768 psi (–0.1 to 5.3 MPa) and a low pressure display range 30in.Hg to 551 psi (–0.1 to 3.8 MPa).
Charging hose	To increase pressure resistance, the hose material and base size were changed.
Vacuum pump	A conventional (R22) vacuum pump can be used by installing a vacuum pump adapter. Be sure that the pump oil does not backflow into the system. Use one capable for vacuum suction of 5 Torr, –755 mmHg (–100.7 kPa).
Gas leakage detector	Special gas leakage detector for HFC refrigerant R410A.

2.3. Accessories

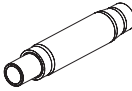
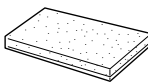
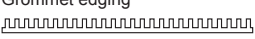
⚠ WARNING

For installation purposes, be sure to use the parts supplied by the manufacturer or other prescribed parts.
The use of non-prescribed parts can cause serious accidents such as the unit to fall, water leakage, electric shock, or fire.

The following installation parts are furnished. Use them as required.

Keep the Installation Manual in a safe place and do not discard any other accessories until the installation work has been completed.

Do not discard any accessories needed for installation until the installation work has been completed.

Name and Shape	Q'ty	Application
Operating Manual 	1	
Installation Manual 	1	(This book)
Binder (Large) 	4	For fixing the connection pipe (Large and Small)
Binder (Medium) 	3	For power supply and transmission, remote controller cable binding.
Coupler heat insulation (Small) 	1	For indoor side pipe joint (Small)
Coupler heat insulation (Large) 	1	For indoor side pipe joint (Large)
Special nut A (Large flange) 	4	For installing indoor unit
Special nut B (Small flange) 	4	For installing indoor unit
Template (Carton top) 	1	For ceiling openings cutting Also used as packing
Drain hose 	1	For installing drain pipe (Ø 3/4 in. [I.D.]; Ø 1-1/16 in. [O.D.])
Hose band 	1	For installing drain hose
Drain hose insulation 	1	For installing drain pipe
Grommet edging 	1	For wiring connecting port. (Not use for U.S.A.)

DECORATION PANEL ACCESSORIES

Name and Shape	Q'ty	Application
Connector cover 	1	For covering connector
Tapping screw (M5 × 12mm) 	4	For mounting decoration panel
Tapping screw (M4 × 12mm) 	1	For mounting connector cover

2.4. Optional parts

The following options are available.

- External output wire (P/N 9379529006)
- External input (voltage) wire (P/N 9368779016)
- External input (no voltage) wire (P/N 9368779009)

3. INSTALLATION WORK

Correct initial installation location is important because it is difficult to move unit after it is installed.

3.1. Selecting an installation location

WARNING

Select installation locations that can properly support the weight of the indoor. Install the units securely so that they do not topple or fall.

CAUTION

Do not install the unit in the following areas:

- Area with high salt content, such as at the seaside.
It will deteriorate metal parts, causing the parts to fail or the unit to leak water.
- Area filled with mineral oil or containing a large amount of splashed oil or steam, such as a kitchen.
It will deteriorate plastic parts, causing the parts to fail or the unit to leak water.
- Area that generates substances that adversely affect the equipment, such as sulfuric gas, chlorine gas, acid, or alkali.
It will cause the copper pipes and brazed joints to corrode, which can cause refrigerant leakage.
- Area that can cause combustible gas to leak, contains suspended carbon fibers or flammable dust, or volatile inflammables such as paint thinner or gasoline.
If gas leaks and settles around the unit, it can cause a fire.
- Area where animals may urinate on the unit or ammonia may be generated.

Do not use the unit for special purposes, such as storing food, raising animals, growing plants, or preserving precision devices or art objects.
It can degrade the quality of the preserved or stored objects.

Do not install where there is the danger of combustible gas leakage.

Do not install the unit near a source of heat, steam, or flammable gas.

Install the unit where drainage does not cause any trouble.

Install the indoor unit, outdoor unit, power supply cable, transmission cable, and remote controller cable at least 40 in. (1 m) away from a television or radio receivers. The purpose of this is to prevent TV reception interference or radio noise.
(Even if they are installed more than 40 in. (1 m) apart, you could still receive noise under some signal conditions.)

If children under 10 years old may approach the unit, take preventive measures so that they cannot reach the unit.

Decide the mounting position with the customer as follows:

- (1) Install the indoor unit on a place having a sufficient strength so that it withstands against the weight of the indoor unit.
- (2) The inlet and outlet ports should not be obstructed; the air should be able to blow all over the room.
- (3) Leave the space required to service the air conditioner.
- (4) A place from where the air can be distributed evenly throughout the room by the unit.
- (5) Install the unit where connection to the outdoor unit is easy.
- (6) Install the unit where the connection pipe can be easily installed.
- (7) Install the unit where the drain pipe can be easily installed.
- (8) Install the unit where noise and vibrations are not amplified.
- (9) Take servicing, etc., into consideration and leave the spaces. Also install the unit where the filter can be removed.

3.2. Installation dimensions

- Leave the space specified in Fig. A so that the air from the blower will cover the entire room.
- Install the indoor unit on a place having a sufficient strength so that it withstands against the weight of the indoor unit.
- A place from where drainage can be extracted outdoors easily.

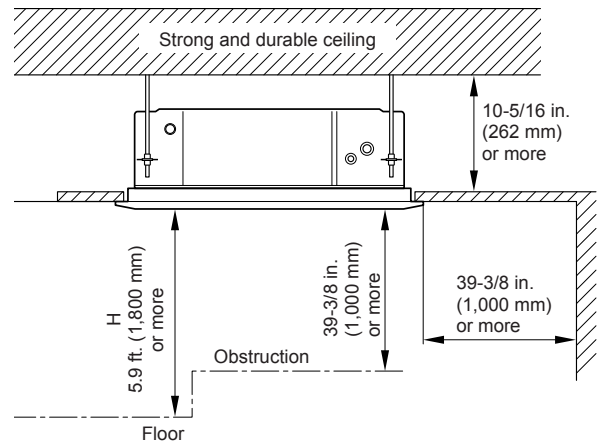
WARNING

Never install in a room where there is the potential of leaking flammable gas. A spark could ignite the gas and cause an explosion or fire.

Avoid installing in a location with high temperature.

- The blower direction can be set for 2 directions or 3 directions. When using 2-direction or 3-direction blower, follow Fig. B for the blower direction and space.
- This product can be installed at a height of up to 9.8 ft. (3.0 m). Perform the Function Setting on the remote controller in accordance with the installed height.

Fig. A

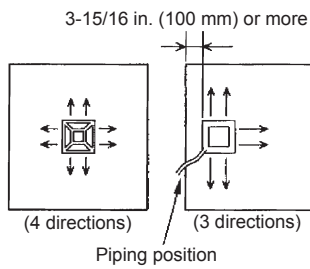


	H (The maximum height from floor to ceiling) [ft. (mm)]					
Model name	AUUB07	AUUB09	AUUB12	AUUB14	AUUB18	AUUB24
Standard mode	8.9 (2,700)	8.9 (2,700)	8.9 (2,700)	8.9 (2,700)	8.9 (2,700)	8.9 (2,700)
High Ceiling mode	-	-	9.8 (3,000)	9.8 (3,000)	9.8 (3,000)	9.8 (3,000)

3.3. Discharge direction setting

- The discharge direction can be selected as shown below.

Fig. B



- * For a 3-way outlet, make sure to perform the Function Setting on the remote controller. Also, make sure to use the optional shutter panel to block the outlet.
- * The ceiling height cannot be set in the 3-way outlet mode. Therefore, do not change the setting in the "Setting the Ceiling Height" at 7 FUNCTION SETTING.
- * When the outlet is shut, be sure to install the optional Air outlet shutter plate kit. For the details of installation, please refer to Installation Manual of kit.

3.4. Installing the unit

Install the air conditioner as follows.

INDOOR UNIT INSTALLATION

- Make the holes for installing in the ceiling (Fig. D).
- Install the hanging bolts (M10), refer to the position in Fig. C.
- Install special nut A, then special nut B onto the hanging bolt (Fig. D).
- Raise the body and mount its hooks onto the hanging bolt between the special nuts.
- Turn special nut B to adjust the height of the body.
- Be sure to leave service access for future service at the designated position.

Fig. C

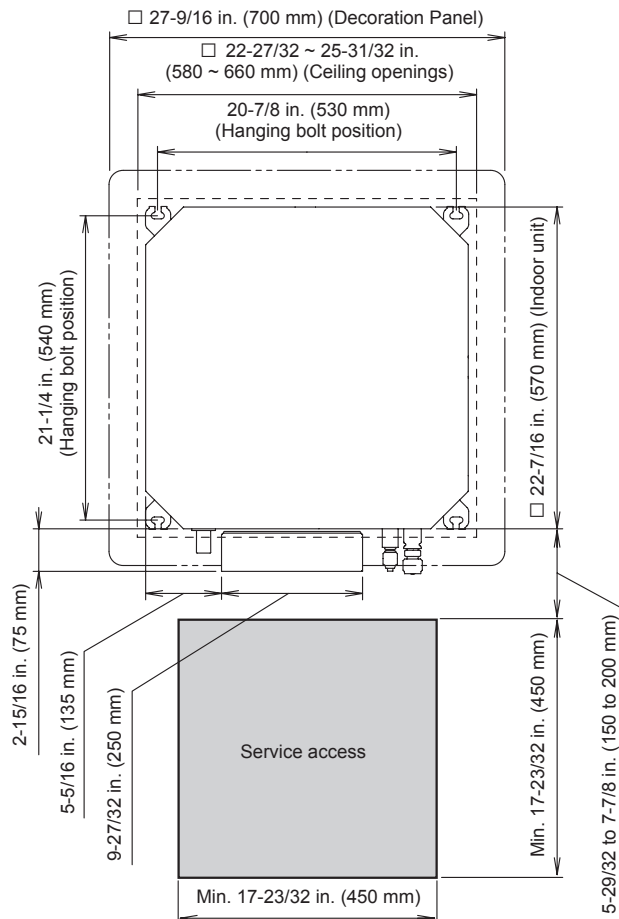
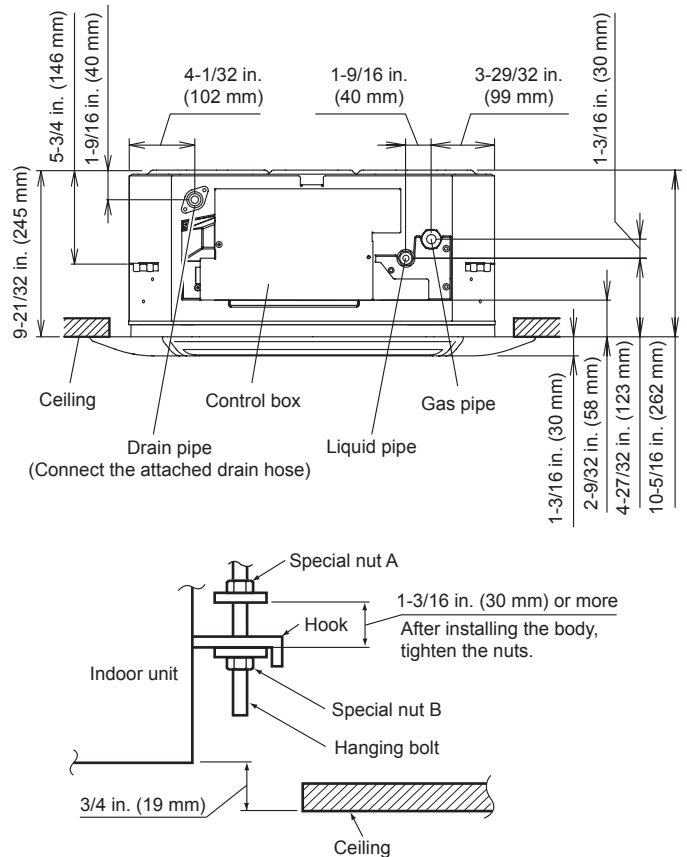


Fig. D



WARNING
Install the air conditioner in a location which can withstand a load of at least 5 times the weight of the main unit and which will not amplify sound or vibration. If the installation location is not strong enough, the indoor unit may fall and cause injuries.
If the job is done with the panel frame only, there is a risk that the unit will come loose.
When fastening the hangers, make the bolt positions uniform.
Perform final tightening by tightening the double nut firmly. The product may fall if not installed properly.
Using a level, or vinyl hose filled with water, fine adjust so that the body is level.

4. PIPE INSTALLATION

CAUTION
Be more careful that foreign matter (oil, water, etc.) does not enter the piping when installing refrigerant R410A models. Also, when storing the piping, securely seal the openings by pinching, taping, etc.
While welding the pipes, be sure to blow dry nitrogen gas through them.

4.1. Selecting the pipe material

CAUTION
Do not use existing pipes from another refrigeration system or refrigerant.
Use pipes that have clean external and internal sides without any contamination which may cause trouble during use, such as sulfur, oxide, dust, cutting waste, oil, or water.
It is necessary to use seamless copper pipes. Material : Phosphor deoxidized seamless copper pipes It is desirable that the amount of residual oil is less than 0.04 oz./100 ft. (40 mg/10 m).
Do not use copper pipes that have a collapsed, deformed, or discolored portion (especially on the interior surface). Otherwise, the expansion valve or capillary tube may become blocked with contaminants.
Improper pipe selection will degrade performance. As an air conditioner using R410A incurs pressure higher than when using conventional (R22) refrigerant, it is necessary to choose adequate materials.

- Thicknesses of copper pipes used with R410A are as shown in the table.
- Never use copper pipes thinner than those indicated in the table even if they are available on the market.

Thicknesses of Annealed Copper Pipes (R410A)

Pipe outside diameter [in. (mm)]	Thickness [in. (mm)]
1/4 (6.35)	0.032 (0.80)
3/8 (9.52)	0.032 (0.80)
1/2 (12.70)	0.032 (0.80)
5/8 (15.88)	0.039 (1.00)
3/4 (19.05)	0.039 (1.20)

4.2. Pipe requirement

⚠ CAUTION

Refer to the installation manual for the outdoor unit for description of allowable pipe length and height difference.

Use pipe with water-resistant heat insulation.

⚠ CAUTION

Install heat insulation around both the gas and liquid pipes. Failure to do so may cause water leaks.
Use heat insulation with heat resistance above 248 °F (120 °C) (Reverse cycle model only)
In addition, if the humidity level at the installation location of the refrigerant piping is expected to exceed 70 %, install heat insulation around the refrigerant piping. If the expected humidity level is 70-80 %, use heat insulation that is 19/32 in. (15 mm) or thicker and if the expected humidity exceeds 80 %, use heat insulation that is 25/32 in. (20 mm) or thicker. If heat insulation is used that is not as thick as specified, condensation may form on the surface of the insulation. In addition, use heat insulation with heat conductivity of 0.045 W/(m·K) or less (at 68 °F (20 °C)).

4.3. Flare connection (pipe connection)

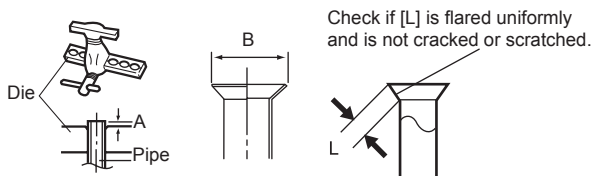
⚠ WARNING

Tighten the flare nuts with a torque wrench using the specified tightening method. Otherwise, the flare nuts could break after a prolonged period, causing refrigerant to leak and generate a hazardous gas if the refrigerant comes into contact with a flame.

4.3.1. Flaring

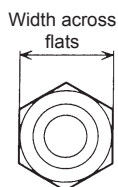
Use special flare tool exclusive for R410A.

- (1) Cut the connection pipe to the necessary length with a pipe cutter.
- (2) Hold the pipe downward so that cuttings will not enter the pipe and remove any burrs.
- (3) Insert the flare nut (always use the flare nut attached to the indoor and outdoor units respectively) onto the pipe and perform the flare processing with a flare tool. Use the special R410A flare tool. Leakage of refrigerant may result if other flare nuts are used.
- (4) Protect the pipes by pinching them or with tape to prevent dust, dirt, or water from entering the pipes.



Pipe outside diameter [in. (mm)]	Dimension A [in. (mm)]	Dimension B ^{0 (+0)} -0.015 (-0.4) [in. (mm)]
	Flare tool for R410A, clutch type	
1/4 (6.35)	0 to 0.020 (0 to 0.5)	11/32 (9.1)
3/8 (9.52)		17/32 (13.2)
1/2 (12.70)		21/32 (16.6)
5/8 (15.88)		25/32 (19.7)
3/4 (19.05)		15/16 (24.0)

When using conventional (R22) flare tools to flare R410A pipes, the dimension A should be approximately 0.020 in. (0.5 mm) more than indicated in the table (for flaring with R410A flare tools) to achieve the specified flaring. Use a thickness gauge to measure the dimension A. It is recommended that a R410A flaring tool is used.



Pipe outside diameter [in. (mm)]	Width across flats of Flare nut [in. (mm)]
1/4 (6.35)	21/32 (17)
3/8 (9.52)	7/8 (22)
1/2 (12.70)	1-1/32 (26)
5/8 (15.88)	1-5/32 (29)
3/4 (19.05)	1-13/32 (36)

4.3.2. Bending pipes

- If pipes are shaped by hand, be careful not to collapse them.
- Do not bend the pipes in an angle more than 90°.
- When pipes are repeatedly bend or stretched, the material will harden, making it difficult to bend or stretch them any more.
- Do not bend or stretch the pipes more than 3 times.

⚠ CAUTION

To prevent breaking of the pipe, avoid sharp bends.

If the pipe is bent repeatedly at the same place, it will break.

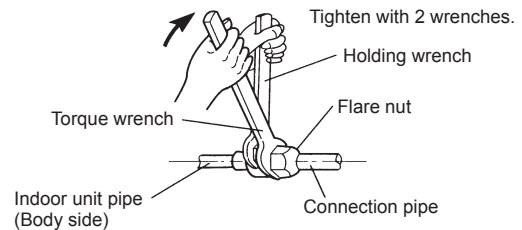
4.3.3. Pipe connection

When the flare nut is tightened properly by your hand, hold the body side coupling with a separate wrench, then tighten with a torque wrench. (See the table below for the flare nut tightening torques.)

⚠ CAUTION

Hold the torque wrench at its grip, keeping it at a right angle with the pipe, in order to tighten the flare nut correctly.

Tighten the flare nuts with a torque wrench using the specified tightening method. Otherwise, the flare nuts could break after a prolonged period, causing refrigerant to leak and generate hazardous gas if the refrigerant comes into contact with a flame.



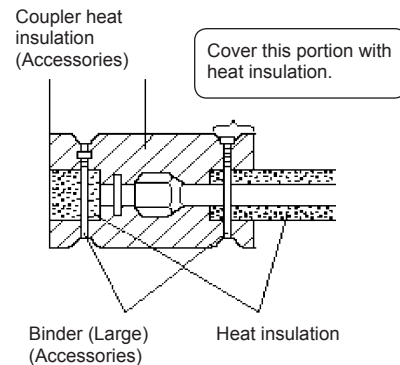
Flare nut [in. (mm)]	Tightening torque [lb·ft. (N·m)]
1/4 (6.35) dia.	11.8 to 13.3 (16 to 18)
3/8 (9.52) dia.	23.6 to 31.0 (32 to 42)
1/2 (12.70) dia.	36.1 to 45.0 (49 to 61)
5/8 (15.88) dia.	46.5 to 55.3 (63 to 75)
3/4 (19.05) dia.	66.4 to 81.1 (90 to 110)

4.4. Installing heat insulation

Install the heat insulation material after performing a refrigerant leak check (see the Installation Manual for the outdoor unit for details).

COUPLER HEAT INSULATION

- Insulate by the coupler heat insulation (Accessories) around the gas pipe and liquid pipe of indoor side.
- After installing the coupler heat insulation, wrap both end with vinyl tape so that there is no gap.
- After affixing the coupler heat insulation, secure it with 2 binders (large), one on each end of the insulation.
- Make sure that the binders overlap the heat insulation pipe.



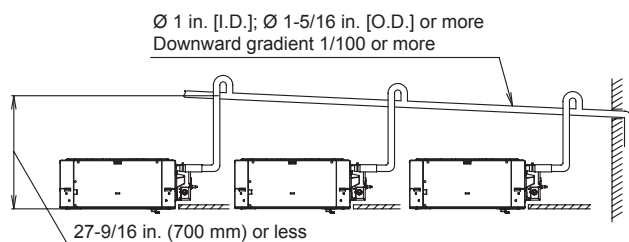
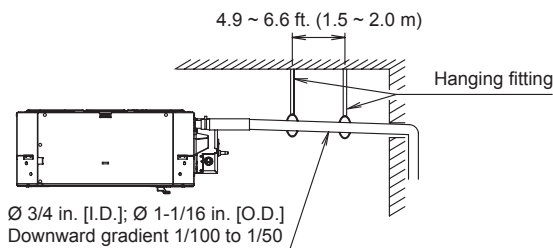
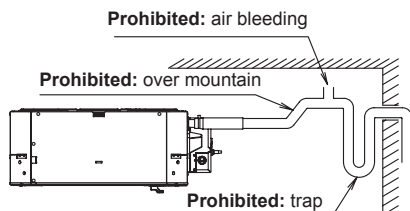
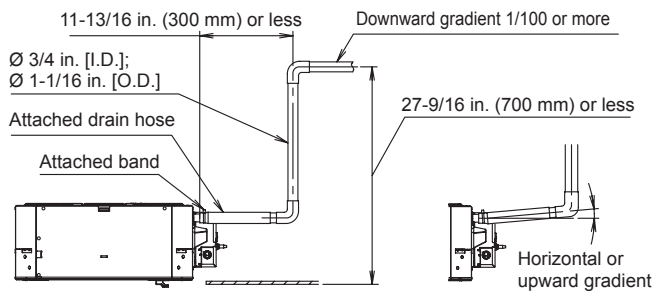
⚠ CAUTION

After checking for gas leaks (refer to the Installation Manual of the outdoor unit), perform this section.

Install heat insulation around both the large (gas) and small (liquid) pipes. Failure to do so may cause water leaks.

5. INSTALLING DRAIN PIPES

- Install the drain pipe with downward gradient (1/50 to 1/100) and so there are no rises or traps in the pipe.
- Use general hard polyvinyl chloride pipe (Ø 3/4 in. [I.D.]; Ø 1-1/16 in. [O.D.]) and connect it with adhesive (polyvinyl chloride) so that there is no leakage.
- When the pipe is long, install supporters.
- Do not perform air bleeding.
- Always heat insulate the indoor side of the drain pipe.
- When desiring a high drain pipe height, raise it up to 27-9/16 in. (700 mm) or less from the ceiling within a range of 11-13/16 in. (300 mm) from the body. A rise dimension over this range will cause leakage.
- Set up the entire piping lines at the position 3-15/16 in. (100 mm) lower than the main body drain port, and use the piping lines Ø 1 in. [I.D.]; Ø 1-5/16 in. [O.D.] or more with the descending inclination to 1/100 or more.



⚠ WARNING

Do not insert the drain piping into the sewer where sulfurous gas occurs. (Heat exchange erosion may occur)

Insulate the parts properly so that water will not drip from the connection parts.

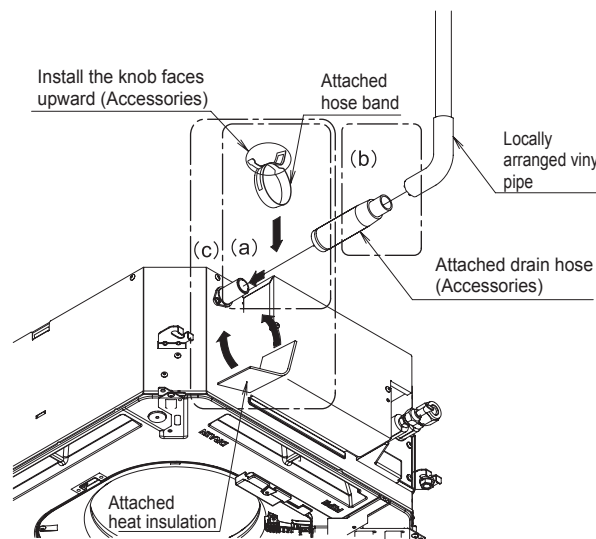
Check for proper drainage after the construction by using the visible portion of transparent drain port and the drain piping final outlet on the body.

⚠ CAUTION

Do not apply adhesive agent on the drain port of the body. (Use the attached drain hose and connect the drain piping)

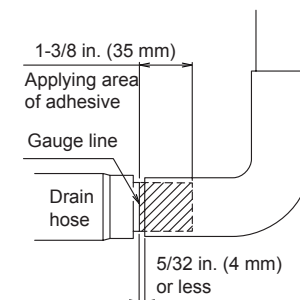
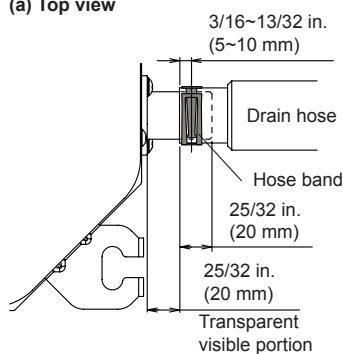
Working procedure

- (1) Install the attached drain hose to the drain port of the body. Install the hose band from the top of the hose within the graphic display area.
- (2) Use vinyl adhesive agent to glue the drain piping (PVC pipe) which is prepared on site. (Apply color adhesive agent evenly until the gauge line and seal)
- (3) Check the drainage. (See separate diagram)
- (4) Install the heat insulation.
- (5) Use the attached heat insulation to insulate the drain port and band parts of the body.



(a) Top view

(b) Side view



(c) Hose opening view

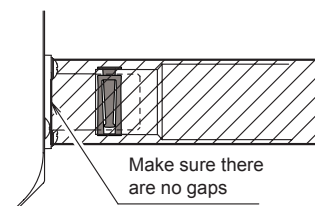
(d) Top view

Wind the attached heat insulation around the hose band

Make sure the alignment is on top

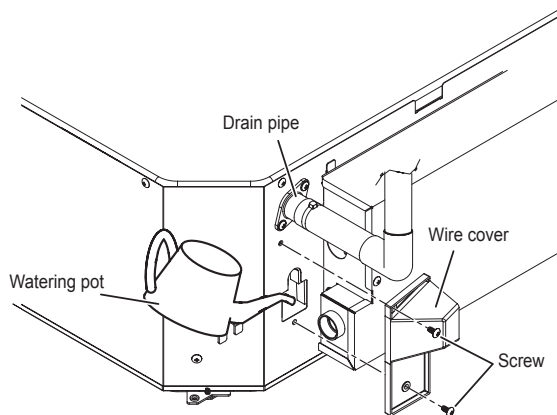


Make sure there are no gaps



Note: Check for drainage

Pour about 1 liter of water from the position shown in the diagram or from the airflow outlet to the dew tray. Check for any abnormalities such as strange noises and whether the drain pump functions normally.



6. ELECTRICAL WIRING

⚠ WARNING

Electrical work must be performed in accordance with this Manual by a person certified under the national or regional regulations. Be sure to use a dedicated circuit for the unit.

An insufficient power supply circuit or improperly performed electrical work can cause serious accidents such as electric shock or fire.

Before starting work, check that power is not being supplied to the indoor unit and outdoor unit.

For wiring, use the prescribed type of cables, connect them securely, making sure that there are no external forces of the cables applied to the terminal connections. Improperly connected or secured cables can cause serious accidents such as overheating the terminals, electric shock, or fire.

Securely install the electrical box cover on the unit.

An improperly installed electrical box cover can cause serious accidents such as electric shock or fire through exposure to dust or water.

Install sleeves into any holes made in the walls for wiring. Otherwise, a short circuit could result.

Use the included connection cables and power cables or ones specified by the manufacturer. Improper connections, insufficient insulation, or exceeding the allowable current can cause electric shock or fire.

Do not modify the power cables, use extension cables, or use any branches in the wiring. Improper connections, insufficient insulation, or exceeding the allowable current can cause electric shock or fire.

Match the terminal block numbers and connection cable colors with those of the outdoor unit. Erroneous wiring may cause burning of the electric parts.

Securely connect the connection cables to the terminal board. In addition, secure the cables with wiring holders. Improper connections, either in the wiring or at the ends of the wiring, can cause a malfunction, electric shock, or fire.

Always fasten the outside covering of the connection cable with the cable clamp. (If the insulator is chafed, electric discharge may occur.)

For U.S.A. and Canada:

When installing this system in high humidity locations, install using ground fault equipment breakers (often referred to in other countries as an ELCB earth leakage current breaker) to reduce the risk of leaking current which result in electric shock or potential fire.

For others:

Install an earth (ground) leakage breaker. In addition, install the earth (ground) leakage breaker so that the entire AC main power supply is cut off at the same time. Otherwise, electric shock or fire could result.

Always connect the earth (ground) cable.

Improper earthing (grounding) work can cause electric shocks.

Install the remote controller cables so as not to be direct touched with your hand.

Perform wiring work in accordance with standards so that the air conditioner can be operated safely and positively.

Connect the connection cable firmly to the terminal board. Imperfect installation may cause a fire.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

⚠ CAUTION

Earth (Ground) the unit.

Do not connect the earth (ground) cable to a gas pipe, water pipe, lightning rod, or a telephone earth (ground) cable. Improper earthing (grounding) may cause electric shock.

Do not connect power supply cables to the transmission or remote controller terminals, as this will damage the product.

Never bundle the power supply cable and transmission cable, remote control cable together.

Separate these cable by 1-31/32 in. (50 mm) or more.

Bundling these cables together will cause miss operation or breakdown.

When handling PCB, static electricity charged in the body may cause malfunction of the PCB. Follow the cautions below:

- Establish an earth (ground) for the indoor and outdoor units and peripheral devices.
- Cut power (breaker) off.
- Touch metal part of the indoor and outdoor units for more than 10 seconds to discharge static electricity charged in the body.
- Do not touch terminals of parts and patterns implemented on PCB.

6.1. Electrical requirement

Voltage rating	208/230 V
Operating range	187 to 253 V

- Select the power cable type and size in accordance with relevant local and national regulations.
- Specifications for local wiring power cord and branch wiring are in compliance with local code.
- Select the correct cable type and size according to the country or region's regulations.
- Max. wire length: Set a length so that the voltage drop is less than 2%. Increase the wire diameter when the wire length is long.

Refer to the table for the breaker specifications of each installation condition. Perform the power crossover wiring within the range of the same refrigerant system. When the crossover wiring is done, make a connection for indoor unit to satisfy conditions A and B below.

A. Current breaker requirements

Model	MCA	MOP (Fuse capacity)
AUUA7RLAV	0.22 A	20 A
AUUA9RLAV	0.24 A	
AUUA12RLAV	0.27 A	
AUUA14RLAV	0.35 A	
AUUA18RLAV	0.39 A	
AUUA24RLAV	0.75 A	

MCA: Minimum Circuit Ampacity

MOP: Maximum Overcurrent Protection

When the power crossover wiring is done, make it so that the total of the MCA A of the connected indoor equipment does not exceed the 15 A.

B. Earth leakage breaker requirements

Breaker capacity	Maximum connectable indoor unit
30 mA, 0.1 sec or less	8
100 mA, 0.1 sec or less	27
200 mA, 0.1 sec or less	39 (Upper limit of the refrigerant system)

If the number of units of connected indoor unit exceeds the upper limit, either add breakers or use a breaker with large capacitance.

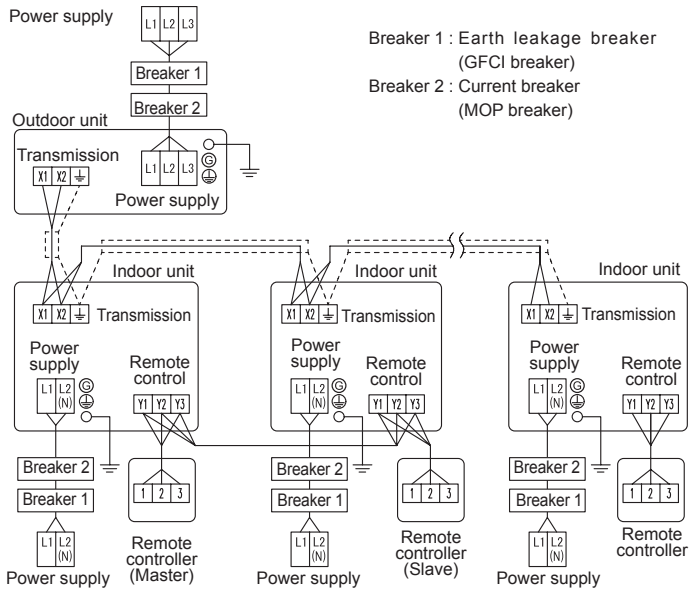
6.1.1. Transmission and remote controller wiring specifications

Follow the specifications below for the transmission and remote controller cable.

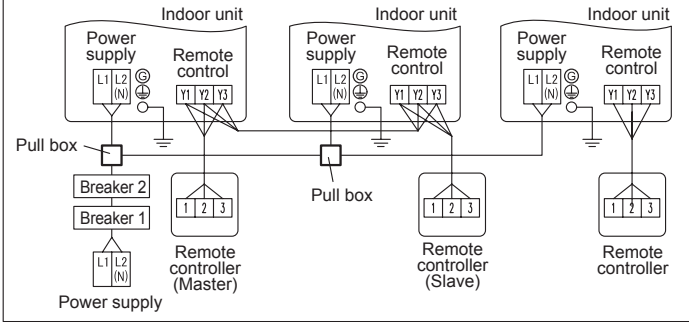
	Cable size	Wire type	Remarks
Transmission cable	22 AWG (0.33 mm ²)	LEVEL 4 (NEMA) non-polar 2core, twisted pair solid core diameter 1/32 in. (0.65mm)	LONWORKS [®] compatible cable
Remote controller cable	22 AWG (0.33 mm ²)	Sheathed PVC cable	Polar 3 core Twisted pair

6.2. Wiring method

(EXAMPLE)



(Crossover wiring of power supply)

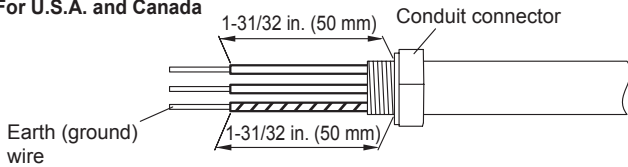


6.3. Unit wiring

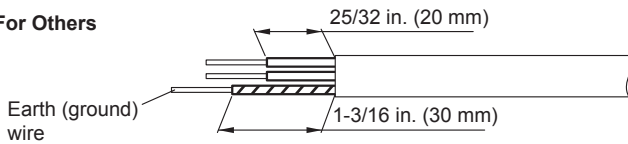
Before attaching the cable to terminal block.

6.3.1. Power supply cable

For U.S.A. and Canada



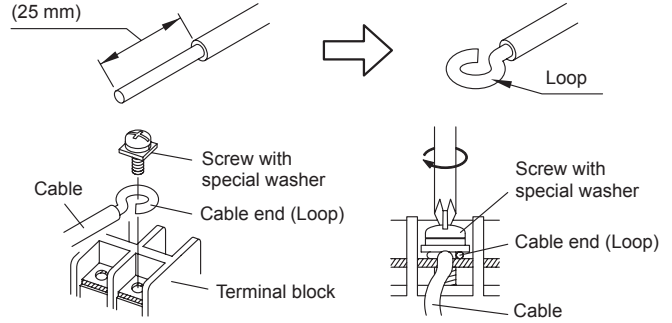
For Others



A. For solid core wiring

- (1) To connect the electrical terminal, follow the below diagram and connect after looping it around the end of the cable.
- (2) Use the specified cables, connect them securely, and fasten them so that there is no stress placed on the terminals.
- (3) Use an appropriate screwdriver to tighten the terminal screws.
Do not use a screwdriver that is too small, otherwise, the screw heads may be damaged and prevent the screws from being properly tightened.
- (4) Do not tighten the terminal screws too much, otherwise, the screws may break.
- (5) See the table for the terminal screw tightening torques.
- (6) Please do not fix 2 power supply cables with 1 screw.

Strip 31/32 in.
(25 mm)



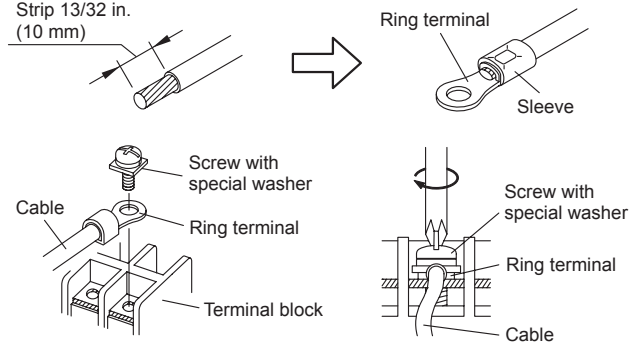
WARNING

When using solid core cables, do not use the ring terminal. If you use the solid core cables with the ring terminal, the ring terminal's pressure bonding may malfunction and cause the cables to abnormally heat up.

B. For strand wiring

- (1) Use ring terminals with insulating sleeves as shown in the figure below to connect to the terminal block.
- (2) Securely clamp the ring terminals to the cables using an appropriate tool so that the cables do not come loose.
- (3) Use the specified cables, connect them securely, and fasten them so that there is no stress placed on the terminals.
- (4) Use an appropriate screwdriver to tighten the terminal screws.
Do not use a screwdriver that is too small, otherwise, the screw heads may be damaged and prevent the screws from being properly tightened.
- (5) Do not tighten the terminal screws too much, otherwise, the screws may break.
- (6) See the table for the terminal screw tightening torques.
- (7) Please do not fix 2 power supply cables with 1 screw.

Strip 13/32 in.
(10 mm)



WARNING

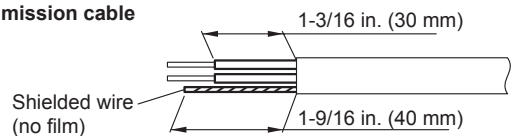
Use ring terminals and tighten the terminal screws to the specified torques, otherwise, abnormal overheating may be produced and possibly cause heavy damage inside the unit.

Tightening torque

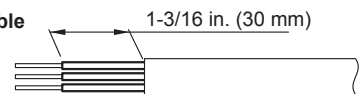
M4 screw (Power supply / L1, L2 (N), GND)	11 to 16 lbf·in. (1.2 to 1.8N·m)
--	-------------------------------------

6.3.2. Transmission and Remote controller cable

Transmission cable

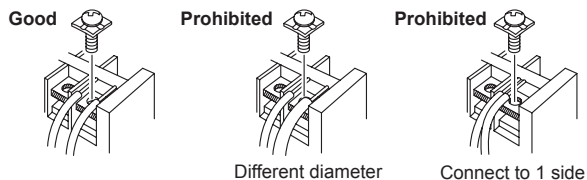


Remote controller cable



- Connect remote controller and transmission cables as shown in Fig. C.

Fig. C



⚠ WARNING

Tighten the terminal screws to the specified torques, otherwise, abnormal overheating may be produced and possibly cause heavy damage inside the unit.

Tightening torque

M3 screw (Transmission /X1, X2) (Remote controller /Y1, Y2, Y3)	4 to 5 lbf-in. (0.5 to 0.6N·m)
---	-----------------------------------

⚠ CAUTION

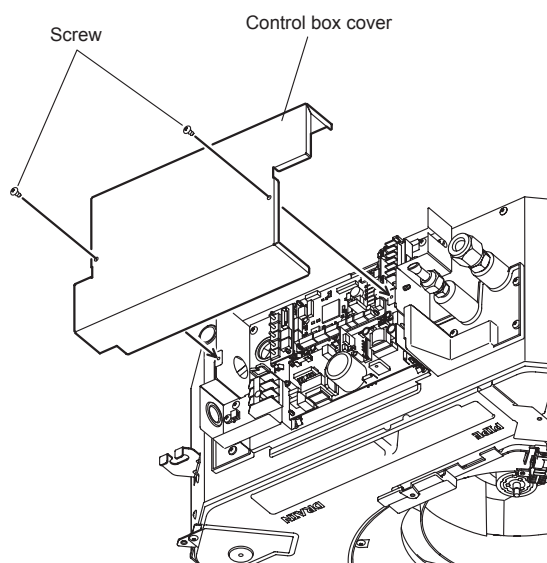
To peel the film from the lead cable, use a dedicated tool that will not damage the conductor cable.

When installing a screw on the terminal block, do not cut the wire by overtightening the screw. On the other hand, an under tightened screw can cause faulty contact, which will lead to a communication failure.

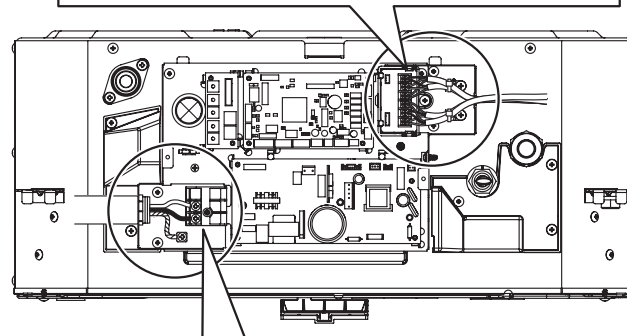
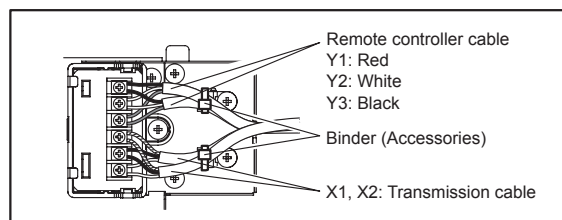
6.4. Connection of wiring

Remove the control box cover and install the connection cable.

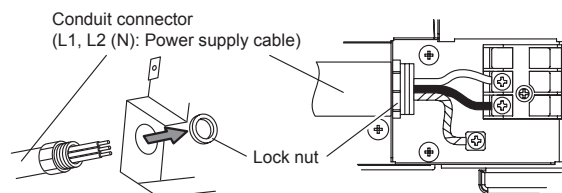
(1) Remove the control box cover and install each connection cable.



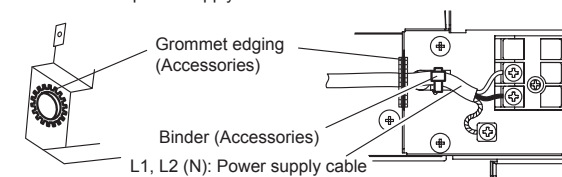
(2) Connect the connection cable, with the binder.



For U.S.A. and Canada: Attach the conduit connector.
(The grommet edging is not used.)



For others: Be sure to use the grommet edging.
Fix the power supply cable with the binder.



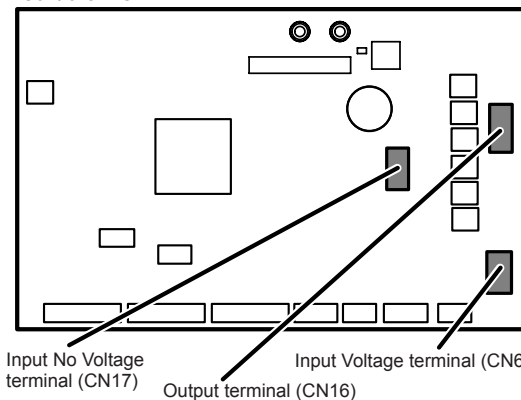
(3) Install control box cover.

⚠ CAUTION

Do not bundle the remote controller cable, or wire the remote controller cable in parallel, with the indoor unit connection cable (to the outdoor unit) and the power supply cable. It may cause erroneous operation.

6.5. External input and external output (Optional parts)

Controller PCB



(1) External input terminals

- Indoor unit can be Start/Stop or Emergency stop, Forced stop by using indoor unit PCB CN6 or CN17.

Wiring methods and specifications

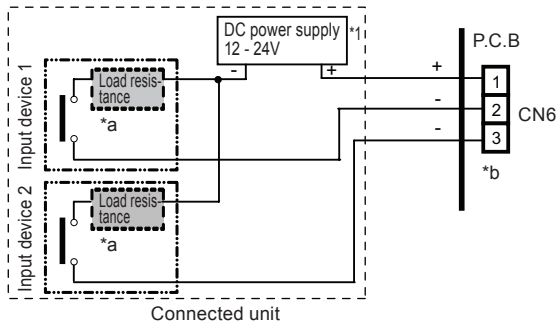
- A twisted pair cable (22AWG) should be used. Maximum length of cable is 492 ft. (150 m).
- * Use an external input and output cable with appropriate external dimension, depending on the number of cables to be installed.
- The wire connection should be separate from the power cable line.

• Input selection

Use either one of these types of terminal according to the application. (Both types of terminals cannot be used simultaneously.)

• Voltage terminal ([CN6])

When a power supply must be provided at the input device you want to connect, use the voltage terminal ([CN6]).



*1 Make the power supply DC12 to 24V. Select a power supply capacity with an ample surplus for the connected load.
Do not impress a voltage exceeding 24V across pins 1-2, and 1-3.

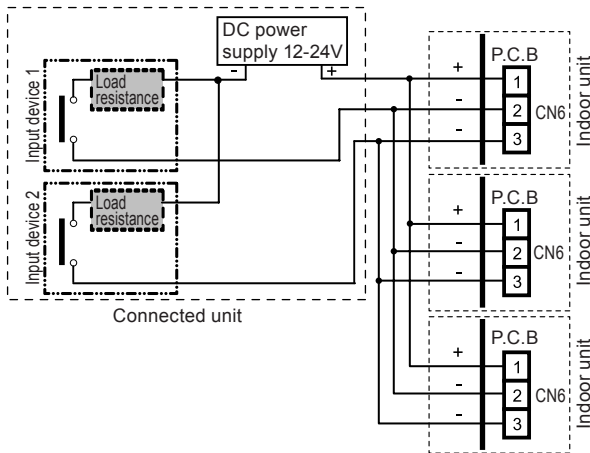
*a The allowable current is DC5~10mA. (Recommended: DC5mA)

Provide a load resistance such that the current becomes DC10mA or less.

Select very low current use contacts (usable at DC12V, DC1mA or less).

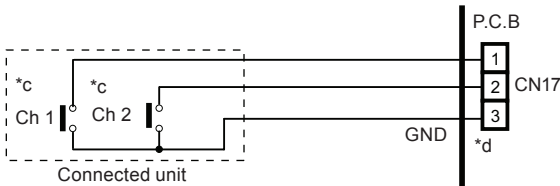
*b The polarity is [+] for pin 1 and [-] for pin 2 and 3.
Connect correctly.

When connected to voltage terminals of multiple indoor units with a connected unit, be sure to make a branch outside the indoor unit using a pull box, etc. as shown on below example.



• No voltage terminal ([CN17])

When a power supply is unnecessary at the input device you want to connect, use the no voltage terminal ([CN17]).

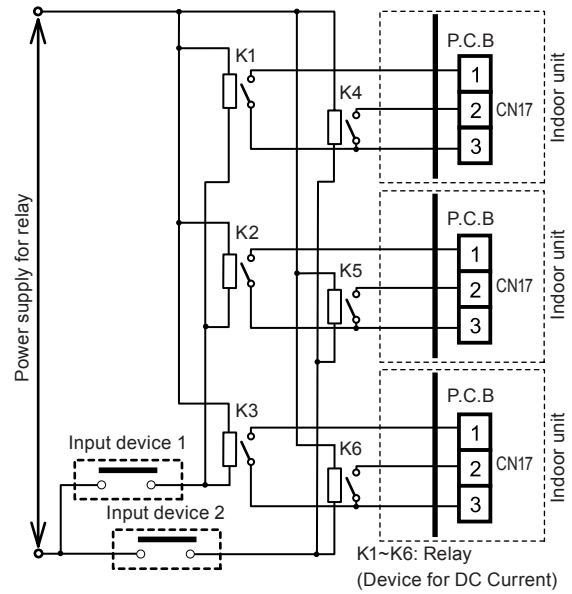


*c Select very low current use contacts (usable at DC12V, DC1mA or less).

*d The wiring is different from voltage terminals. Be sufficiently careful when wiring.

When connected to no voltage terminals of multiple indoor units with a connected unit, insulate each indoor unit with relay, etc. as shown on below example.

When connected to multiple indoor units directly, it will cause breakdown.

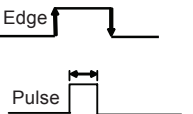


Operation behavior

• Input signal type

The input signal type can be selected. It is switched by Dip-sw on the indoor unit PCB.

Dip-sw [Set 2-2]	Input signal type
OFF	Edge
ON	Pulse



The width of pulse must be longer than 200msec.

• When function setting is "Start/Stop" mode.
[In the case of "Edge" input]

Connector	Input signal	Command
Ch1 of CN6 or CN17	OFF → ON	Operation
	ON → OFF	Stop

[In the case of "Pulse" input]

Connector	Input signal	Command
CN6 or CN17	Ch1	OFF → ON Operation
	Ch2	OFF → ON Stop

* The last command has priority.

* The indoor units within the same remote controller group operates in the same mode.

• When function setting is "Emergency stop" mode.
[In the case of "Edge" input]

Connector	Input signal	Command
Ch1 of CN6 or CN17	OFF → ON	Emergency stop
	ON → OFF	Normal

[In the case of "Pulse" input]

Connector	Input signal	Command
CN6 or CN17	Ch1	OFF → ON Emergency stop
	Ch2	OFF → ON Normal

* All indoor units of same refrigerant system stops when Emergency stop operates.

• When function setting is "Forced stop" mode.
[In the case of "Edge" input]

Connector	Input signal	Command
Ch1 of CN6 or CN17	OFF → ON	Forced stop
	ON → OFF	Normal

[In the case of "Pulse" input]

Connector	Input signal	Command
CN6 or CN17	Ch1	OFF → ON Forced stop
	Ch2	OFF → ON Normal

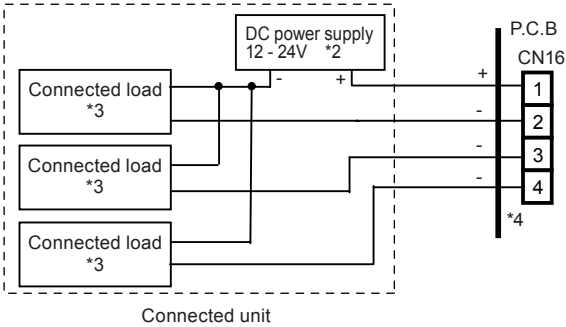
- * When the forced stop is triggered, indoor unit stops and Start/Stop operation by a remote controller is restricted.
- * **When forced stop function is used with forming a remote controller group, connect the same equipment to each indoor unit within the group.**
- Selection method of functions
 “Start/Stop” mode or “Emergency stop” mode, “Forced stop” mode can be selected with function setting of indoor unit.

(2) External output terminals

- When picking up output signals for operating status, abnormal conditions or indoor unit status.

Wiring methods and specifications

- A twisted pair cable (22AWG) should be used. Maximum length of cable is 492 ft. (150 m).
- Use an external input and output cable with appropriate external dimension, depending on the number of cables to be installed.
- The wire connection should be separate from the power cable line.



- *2 Provide a DC12 to 24V power supply. Select a power supply capacity with an ample surplus for the connected load.
- *3 The allowable current is 30mA or less. Provide a load resistance such that the current becomes 30mA or less.
- *4 Polarity is [+] for pin 1 and [-] for pins 2-4. Connect correctly. Do not impress a voltage exceeding 24V across pins 1-2, 1-3, and 1-4.

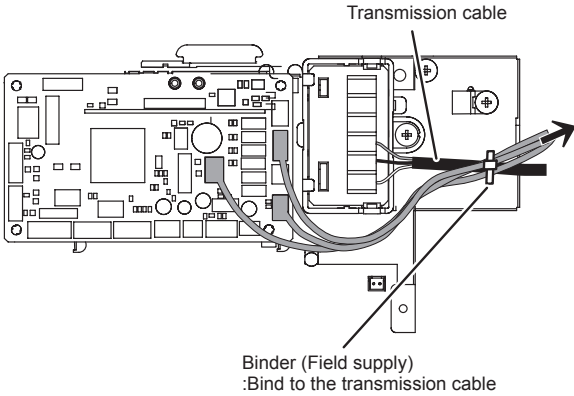
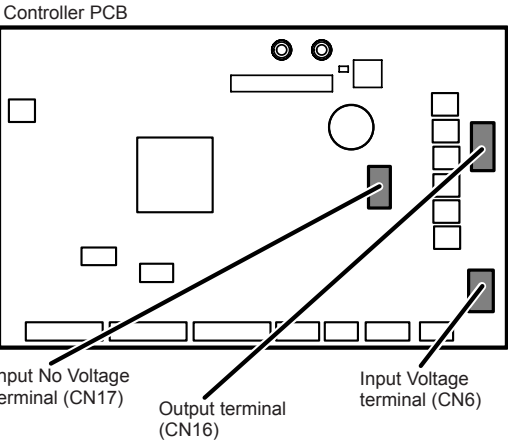
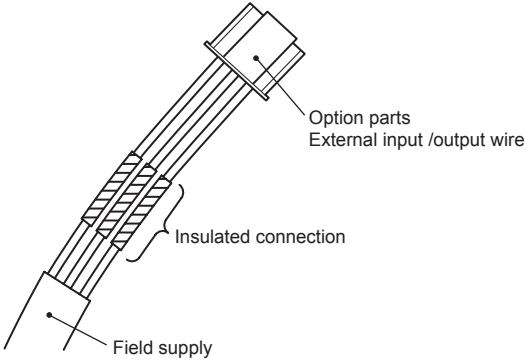
Operation behavior

Connector		Output voltage	Status
CN16	External output1 Pins 1-2	0 V	Stop
		DC 12-24 V *2	Operation
	External output2 Pins 1-3	0 V	Normal
		DC 12-24 V *2	Error
	External output3 Pins 1-4	0 V	Indoor unit fan stop
		DC 12-24 V *2	Indoor unit fan operation

(3) Connection methods

- Wire modification
 Remove insulation from wire attached to wire kit connector.
 Remove insulation from field supplied cable. Use crimp type insulated butt connector to join field cable and wire kit wire.
 Connect the wire with connecting wire with solder.

Important: Be sure to insulate the connection between the wires.



7. FIELD SETTING

There are 3 methods for address setting by FIELD SETTING as follows.
 Set by either of the methods.
 Each setting method is described (1) to (3) below.
 (1) IU AD, REF AD SW settings This section (7.1. Setting the address)
 (2) Remote controller settings Refer to the wired or wireless remote controller manual for detailed setting information. (Set IU AD, REF AD SW to 0)
 (3) Automatic address settings Refer to the outdoor unit manual for detailed setting information. (Set IU AD, REF AD SW to 0)

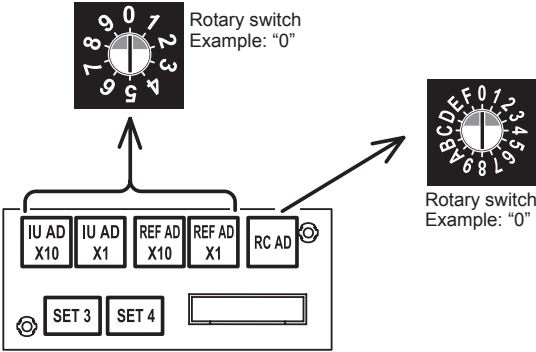
⚠ CAUTION

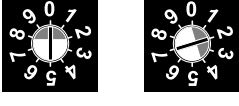
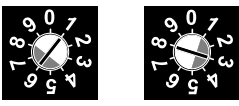
Be sure to turn OFF the power before performing the field setting.

7.1. Setting the address

⚠ CAUTION

Use an insulated screwdriver to set the dip switches.



Setting	Setting range	Type of switch
Indoor unit address	0–63	Setting example 2  IU AD×10 IU AD×1
Refrigerant circuit address	0–99	Setting example 63  REF AD×10 REF AD×1

(1) Indoor unit address

Rotary switch (IU AD ×1)...Factory setting "0"
 Rotary switch (IU AD ×10)...Factory setting "0"
 When connecting multiple indoor units to 1 refrigerant system, set the address at IU AD SW as shown in the Table A.

(2) Refrigerant circuit address

Rotary switch (REF AD ×1)...Factory setting "0"
 Rotary switch (REF AD ×10)...Factory setting "0"
 In the case of multiple refrigerant systems, set REF AD SW as shown in the Table A for each refrigerant system.
 Set to the same refrigerant circuit address as the outdoor unit.

- If working in an environment where the wireless remote controller can be used, the addresses can also be set using the remote controller.
- If setting the addresses using the wireless remote controller, set the indoor unit address and refrigerant circuit address to "00".
 (For information on setting using the wireless remote controller.)

Table A

Address	Rotary Switch Setting		Address	Rotary Switch Setting	
Refrigerant circuit	REF AD SW		Indoor unit	IU AD SW	
	× 10	× 1		× 10	× 1
0	0	0	0	0	0
1	0	1	1	0	1
2	0	2	2	0	2
3	0	3	3	0	3
4	0	4	4	0	4
5	0	5	5	0	5
6	0	6	6	0	6
7	0	7	7	0	7
8	0	8	8	0	8
9	0	9	9	0	9
10	1	0	10	0	0
11	1	1	11	1	1
12	1	2	12	1	2
⋮	⋮	⋮	⋮	⋮	⋮
99	9	9	63	6	3

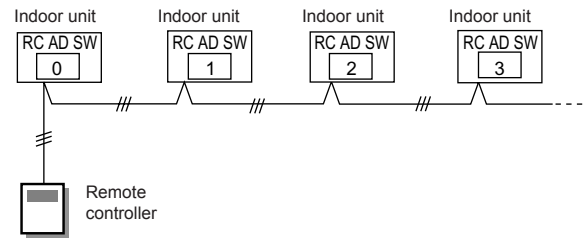
Do not set the indoor unit address (IU AD SW) at 64 to 99.
 It may result in failure.

(3) Remote controller address

Rotary switch (RC AD SW)...Factory setting "0"
 When connecting multiple indoor units to 1 standard wired remote controller, set the address at RC AD SW in sequence from 0.

Setting	Setting range	Type of switch
Remote controller address	0–15	Setting example 0  RC AD

Example If 4 indoor units are connected.

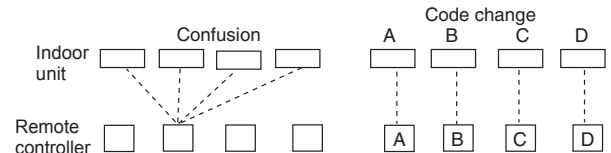


RC AD SW	0	1	2	3	4	5	6	7
Address	0	1	2	3	4	5	6	7

RC AD SW	8	9	A	B	C	D	E	F
Address	8	9	10	11	12	13	14	15

7.2. Custom code setting

Selecting the custom code prevents the indoor unit mix-up.
 (Up to 4 codes can be set.)
 Perform the setting for both the indoor unit and the remote controller.



Custom code setting for indoor unit

Set the DIP SW SET 3 SW1, SW2, referring to the Table B.

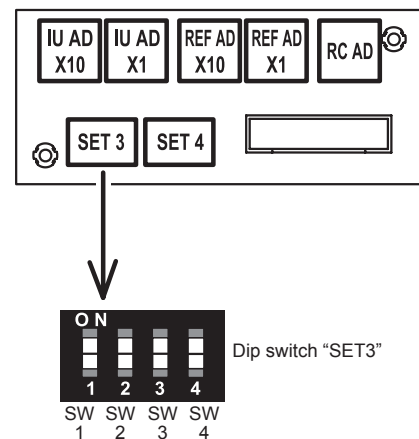


Table B

	Custom code			
	A (Factory setting)	B	C	D
DIP SW SET 3 SW1	OFF	ON	OFF	ON
DIP SW SET 3 SW2	OFF	OFF	ON	ON

CAUTION

Do not operate any switches other than prescribed, as it can cause the unit to operate improperly or malfunction.

7.3. Function setting

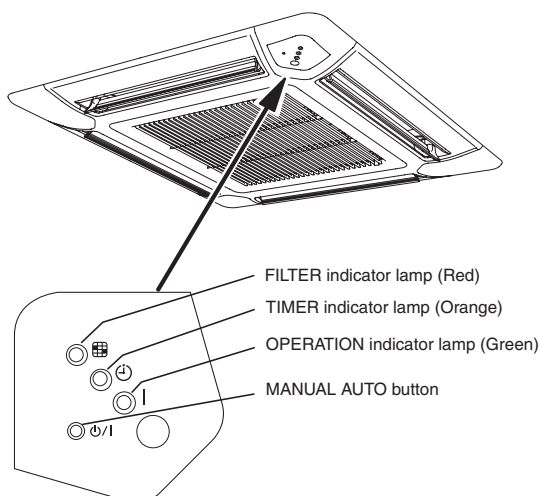
- FUNCTION SETTING can be performed with the wired or wireless remote controller.
 (The remote controller is optional equipment)
- Refer to the wired or wireless remote controller manual for detailed setting information. (Set IU AD ,REF AD SW to 0)
- Refer to "7.1. Setting the address." for indoor unit address and refrigerant circuit address settings.
- Turn the power of the indoor unit ON before starting the setting.

* Turning on the power to the indoor units initializes EEV, so make sure the piping air tight test and vacuuming have been conducted before turning on the power.
 * Also check again to make sure no wiring mistakes were made before turning on the power.

Function details

Function	Function number	Setting number	Default	Details
Filter indicator interval	11	00	Default	Adjust the filter cleaning interval notification. If the notification is too early, change to setting 01. If the notification is too late, change to setting 02.
		01	Longer	
		02	Shorter	
Filter indicator action	13	00	Enable	Enable or disable the filter indicator. Setting 02 is for use with a central remote controller.
		01	Disable	
		02	Display only on central remote controller	
Ceiling airflow	20	00	Default	Regulate the airflow according to the needs of the installation location. When set to 01, the airflow will be stronger. (Cassette type only)
		01	High Ceiling	
Vertical airflow direction	23	00	Default	Adjust the vertical airflow direction. All airflow direction louvers are adjusted together. (Cassette type only)
		01	Raise	
Cool air temperature trigger	30	00	Default	Adjust the cool air trigger temperature. To lower the trigger temperature, use setting 01. To raise the trigger temperature, use setting 02.
		01	Adjust (1)	
		02	Adjust (2)	
Heat air temperature trigger	31	00	Default	Adjust the heat air trigger temperature. To lower the trigger temperature by 11 degrees F (6 degrees C), use setting 01. To lower the trigger temperature by 7 degrees F (4 degrees C), use setting 02. To raise the trigger temperature, use setting 03.
		01	Adjust (1)	
		02	Adjust (2)	
		03	Adjust (3)	
Auto restart	40	00	Enable	Enable or disable automatic system restart after a power outage.
		01	Disable	
External control	46	00	Start/Stop	Allow an external controller to start or stop the system, or to perform an emergency stop. *If an emergency stop is performed from an external controller, all refrigerant systems will be disabled. *If forced stop is set, indoor unit stops by the input to the external input terminals, and Start/Stop by a remote controller is restricted.
		01	Emergency stop	
		02	Forced stop	
Error report target	47	00	All	Change the target for reporting errors. Errors can either be reported in all locations, or only on the wired remote.
		01	Display only on central remote controller	

7.3.1. Button name and function



7.3.2. Checking the function settings

- Press and hold the "MANUAL AUTO" button on the indoor unit for 3 seconds to check the function settings. It is necessary to disconnect the power in order to return to normal operation mode.

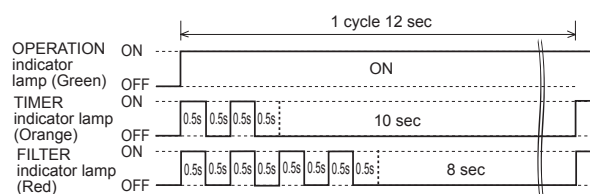
(1) Indoor unit and refrigerant address indication

Indication pattern

Indicator name	Indication pattern	
	Indoor unit address	Refrigerant address
OPERATION indicator lamp (Green)	ON	Flash (1.0s ON/1.0s OFF)
TIMER indicator lamp (Orange)	Address: tens place (0.5s ON/0.5s OFF)	
FILTER indicator lamp (Red)	Address: ones place (0.5s ON/0.5s OFF)	

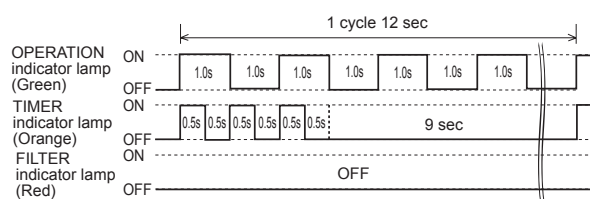
- Indoor unit address example

(Example) ADDRESS : 24



- Refrigerant address example

(Example) ADDRESS : 30



- Setting details

Function number	Item	Setting number
01	Indoor unit address	00~63
02	Refrigeration address	00~99

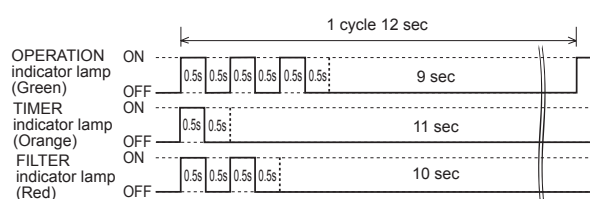
For use with a remote controller, set all rotary switches to 0, and refer to "7.1. Setting the address" for details.
All switches are set to 0 at the factory.

(2) Others

Indication pattern

Indicator Name	Indication pattern
OPERATION indicator lamp (Green)	Function number; tens place (0.5s ON/0.5s OFF)
TIMER indicator lamp (Orange)	Function number; ones place (0.5s ON/0.5s OFF)
FILTER indicator lamp (Red)	Setting number: (0 - 9) (0.5s ON/0.5s OFF)

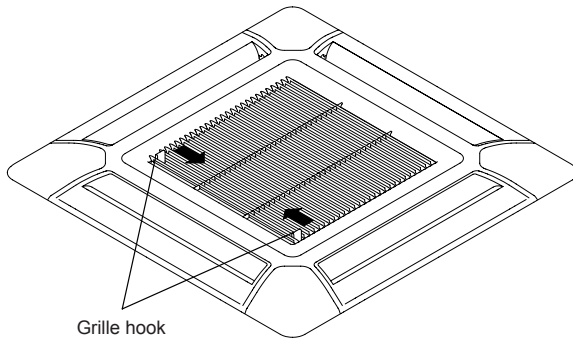
(Example) Function : 31, Setting number : 2



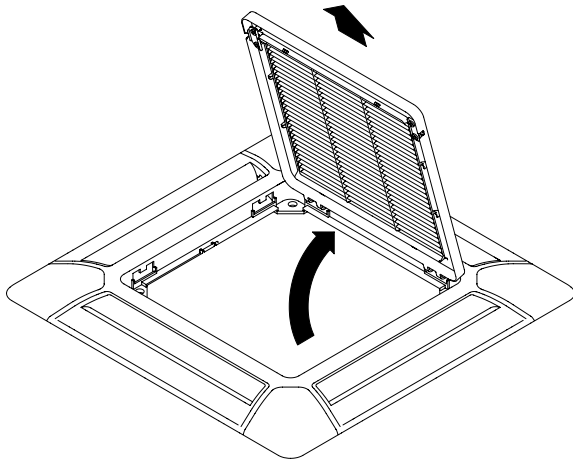
8. DECORATION PANEL INSTALLATION

8.1. Remove the intake grille

- (1) Slide the 2 grille hook

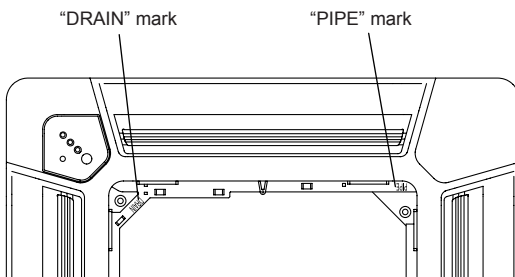


- (2) Open the intake grille and remove.



8.2. Install panel to indoor unit

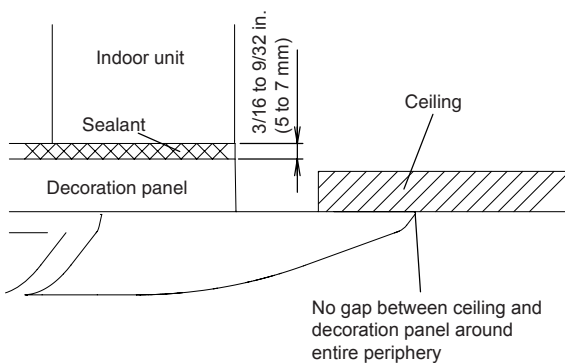
- (1) Install the decoration panel on the indoor unit.



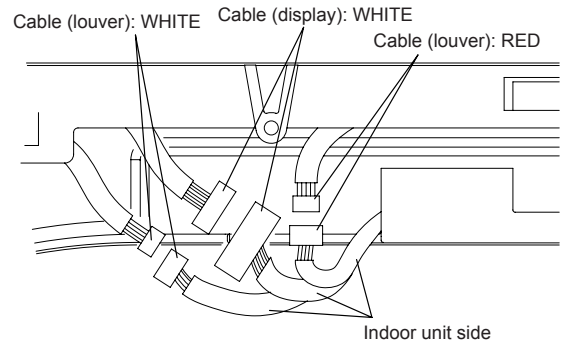
* Align the stamped marks on the decoration panel against the pipe and the drain of the indoor unit.

CAUTION

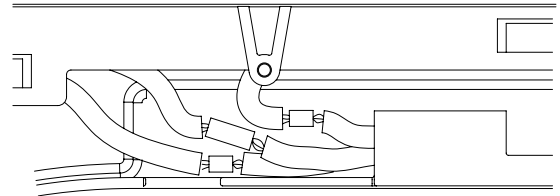
Use only the supplied screws to install the decoration panel.



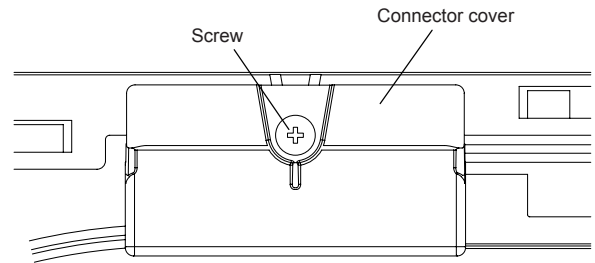
- (2) Connect the connector.



- Arrange the cables as illustrated below.



- (3) Attach the connector cover.



8.3. Attach the intake grille

The installation is the reverse of "REMOVING THE INTAKE GRILLE".

The intake grille can be rotated and installed 4 ways to suit the user's preference.

CAUTION

The louver angle cannot be changed if the power is not on, (If moved by hand, it may be damaged.)

The grille assembly is directional relative to the air conditioner body.

Install so that there is no gap between the grille assembly and the air conditioner body.

9. TEST RUN

9.1. Test run using PCB (Outdoor unit)

- Refer to the Installation Manual for the outdoor unit if the PCB for the outdoor unit is to be used for the test run.

9.2. Test run using Remote Controller

- Refer to the Installation Manual for the remote controller to perform the test run using the wireless remote controller.
- When the air conditioner is being test run, the OPERATION and TIMER indicator lamps flash slowly at the same time.

10. CHECK LIST

Pay special attention to the check items below when installing the indoor unit(s). After installation is complete, be sure to check the following check items again.

CHECK ITEMS	If not performed correctly	CHECK BOX
Has the indoor unit been installed correctly?	Vibration, noise, indoor unit may drop	
Has there been a check for gas leaks (refrigerant pipes)?	No cooling, No heating	
Has heat insulation work been completed?	Water leakage	
Does water drain easily from the indoor units?	Water leakage	
Is the voltage of the power source the same as that indicated on the label on the indoor unit?	No operation, heat or burn damage	
Are the wires and pipes all connected completely?	No operation, heat or burn damage	
Is the indoor unit earthed (grounded)?	Short circuit	
Is the connection cable the specified thickness?	No operation, heat or burn damage	
Are the inlets and outlets free of any obstacles?	No cooling, No heating	
Does start and stop air conditioner operation by remote control unit or external device?	No operation	
After installation is completed, has the proper operation and handling been explained to the user?		

11. ERROR CODES

If you use a wired type remote controller, error codes will appear on the remote controller display. If you use a wireless remote controller, the lamp on the photodetector unit will output error codes by way of blinking patterns. See the lamp blinking patterns and error codes in the table below.

Error display			Wired Remote Controller Error code	Error contents
OPERATION lamp (green)	TIMER lamp (orange)	FILTER lamp (red)		
● (1)	● (2)	◇	12	Remote controller communication error
● (1)	● (4)	◇	14	Anomalous network communications
● (1)	● (6)	◇	16	Parallel communication error
● (3)	● (1)	◇	31	Power frequency error
● (3)	● (2)	◇	32	Model information error/EEPROM accession error
● (4)	● (1)	◇	41	Room temperature thermistor error
● (4)	● (2)	◇	42	Indoor heat exchanger temperature thermistor error
● (5)	● (1)	◇	51	Indoor fan motor error
● (5)	● (3)	◇	53	Drainage error
● (9)	● (15)	◇	90	Outdoor unit error

Display mode
 ● : 0.5s ON / 0.5s OFF
 ◇ : 0.1s ON / 0.1s OFF
 () : Number of flashing

Wired Remote Controller Display

